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NORTH DAKOTA FUNGI[1]—II

J. F. Brenckle

III. Lower Basidiomycetes

Aecidium Allenii Clint.
On *Elaeagnus argentea.* Kulm and Leeds, June, 1912, Lunell.
(Fungi Dak. *126.*)

Aecidium Boltoniae Arth.
On *Boltonia asteroides.* Kulm, June, 1911.
(Fungi Dak. *127.*)

Aecidium Convallariae Schum.
On *Polygonatum giganteum.* Leeds, July, 1913, Lunell.

Aecidium Compositarum Authors.
On *Ratibida columnaris.* Logan Co., July, 1912.

Aecidium Falcatae Arth.
On *Falcata comosa.* Washburn, July, 1915, Stevens.
(Fungi Dak. *326.*)

Aecidium Grindeliae Griff.
On *Grindelia squarrosa.* Kulm, June, 1909.
(Fungi Dak. *201.*)

Aecidium magnatum Arth.
On *Vagnera stellata.* Kulm, June, 1908.
(Fungi Dak. *1.*)

Aecidium Lilii Clint.
On *Lilium umbellatum.* July, 1913.

Aecidium Liatridis Ellis & Ander.
On *Liatris punctata, L. scariosa.* Kulm, June, 1910.
(Fungi Dak. *101, 401.*)

Aecidium Malvastri Arth.
On *Malvastrum coccineum.* Kulm, June, 1911.

Aecidium Hydrophylli Peck.
On *Hydrophyllum virginicum.* Fargo, May, 1915, Stevens.
(Fungi Dak. *302.*)

Aecidium Ranunculacearum DC.
On *Anemone cylindrica, Ranunculus sceleratus.* Kulm, June, 1908.

Aecidium Sommerfelti Johanson.
On *Thalictrum purpurascens.* Fargo, June, 1908, Seaver.

Aecidium Thalictri Chev.
On *Thalictrum thyrsoideum, T. Lunellii, T. vegetum, T. dasycarpum.* Leeds, Lunell, Fargo, Stevens; Kulm.
(Fungi Dak. *104.*)

[1] A few species are included from bordering counties in South Dakota.

Aecidium Violae Schum.
On *Viola sororia, V. papilionacea, V. scabriuscula, V. arenaria.* Fargo, 1915, Stevens; Leeds, Lunell and Kulm.
(Fungi Dak. *151.*)

Cintractia externa (Griff.) Clint.
On *Carex filifolia.* Kulm, June, 1909.
(Fungi Dak. *52.*)

Coleosporium Solidaginis (Schw.) Thuem.
On *Aster chinensis,* and *A. laevis.* Fargo, 1915, Stevens.
On *Aster paniculatus,* and *A. multiflorus.* Kulm, 1912.
On *Solidago canadensis, S. gilvocanescens,* and *S. Pitcheri.* Leeds, Lunell.
On *Solidago serotina, S. mollis.* Kulm, 1909.
(Fungi Dak. *77, 276, 276a, 305, 305a, 355, 355a.*)

Cronartium Comandrae Peck.
On *Comandra pallida.* Beaver Lake, Sentinel Butte, and Camp Crook, S. D.
(Fungi Dak. *78, 403.*)

Doassansia Alismatis (Nees) Cornu.
On *Alisma Plantago-aquatica.* Kulm, June, 1913.
(Fungi Dak. *202.*)

Doassansia Sagittariae (West.) Fish.
On *Sagittaria latifolia.* Kulm, July, 1914.
(Fungi Dak. *253.*)

Earlea speciosa (Fr.) Arth.
On *Rosa praticola, R. heliophylla,* and *R. blanda.* Kulm and Leeds.
(Fungi Dak. *53, 53a, 53b.*)

Entyloma Compositarum Farl.
On *Erigeron philadelphicum.* Valley City, 1884, Seymour.

Entyloma Menispermi Farl. & Trel.
On *Menispermum canadense.* Valley City, Seymour.

Entyloma Physalidis (Kalch. & Cooke) Wint.
On *Solanum triflorum.* Bismark, 1884, Seymour.

Gymnosporangium Betheli Kern.
On *Juniperus scopulorum.* Williston, 1915, Stevens.
On *Crataegus* sp. Williston.
(Fungi Dak. *331.*)

Gymnosporangium globosum Farl.
On *Juniperus prostrata.* Glen Ullin, July, Stevens.
(Fungi Dak. *332.* Not *332a.*)

Gymnosporangium Juniperi-virginianae Schw.
On *Malus ioensis,* and *Juniperus virginiana.* Fargo, 1915, Stevens.
(Fungi Dak. *358.*)

Gymnosporangium juvenescens Kern.
On *Amelanchier alnifolia,* and *Juniperus prostrata.* Williston, Glen Ullin, Sentinel Butte, 1915, Stevens.
(Fungi Dak. *278, 359, 359a.*)

Gymnosporangium Nelsoni Arth.
On *Juniperus scopulorum.* Williston, 1915, Stevens.
(Fungi Dak. *332a.* Not *G. globosum* Farl.)

Melampsora Bigelowii Thüm.
On *Salix amygdaloides, S. candida,* and *S. longifolia.* Kulm, Leeds, and Fargo.
(Fungi Dak. *37, 176.*)
Melampsora Lini Desm.
On *Linum Lewisii.* Dore, Stevens.
On *Linum rigidum.* Dickenson.
On *Linum sulcatum,* and *L. usitatissimum.* Kulm.
(Fungi Dak. *235, 235a.*)
Melampsora Medusae Thüm.
On *Populus deltoides, P. tremuloides.* Kulm, 1909.
On *P. monilifera.*
(Fungi Dak. *79.*)
Nigredo appendiculatus (Pers.) Arth.
On *Phaseolus nanus.* Kulm, Sept., 1909.
(Fungi Dak. *87. Uromyces appendiculatus* (Pers.) Ung.)
Nigredo Eleocharidis Arth.
On *Eleocharis olivacea,* and *E. palustris.* Kulm, 1908.
(Fungi Dak. *50,* as *Uromyces Eleocharidis* Arth.)
Nigredo Fabae (Pers.) Arth.
On *Lathyrus venosus.* Fargo, Ft. Ransom, 1915, Stevens.
(Fungi Dak. *372.*)
Nigredo intricata (Cooke) Arth.
On *Eriogonum flavum, E. multiceps.* Sentinel Butte, Aug., 1916; Medora, 1884, Seymour.
(Fungi Dak. *406.*)
Nigredo Junci (Desm.) Arth.
On *Juncus balticus.* Kulm, Dec., 1910.
On *Ambrosia psilostachya, Circium Flodmanii, Helianthus Maximilliani,* and *H. tuberosus.* Kulm and Fargo.
(Fungi Dak. *20, 52 Aecidium Cardui* Arth., *26 Aecidium Compositarum* Mart., *45a. Puccinia Helianthus* Schw. *1, 350.*)
Nigredo perigynia (Halst.) Arth.
On *Carex abbreviata.* Leeds, June, 1912, Lunell.
Nigredo plumbaria (Peck) Arth.
On *Gaura coccinea.* Kulm, June, 1916.
Nigredo Polemonii (Peck) Arth.
On *Spartina Michauxiana.* Kulm, 1909.
On *Collomia linearis,* and *Steironema Lunellii.* Kulm, June, 1910.
On *Dodecantheon thornense.* June, 1914, Thorne, Lunell.
On *Vagnera stellata* (?). Kulm, 1911.
(Fungi Dak. *70, 102, 134, 259,* and probably *1.*)
Nigredo Polygoni (Pers.) Arth.
On *Polygonum aviculare, P. erectum.* Kulm, Oct., 1909.
(Fungi Dak. *72, 133, 133a.*)
Nigredo proeminens (DC.) Arth.
On *Euphorbia glyptosperma, E. stricticaulis,* and *E. serpyllifolia.* Kulm and Leeds, 1910, Lunell.
(Fungi Dak. *71, 71a, 119, 155, 177.*)

Nigredo punctata (Schroet.) Arth.
On *Astragalus adsurgens, Aragallus Lambertii, Homolobus caespitosus,* and *Orophaca caespitosa.* Kulm, Garrison, Sentinel Butte.
(Fungi Dak. *178, 373, 389.*)
Nigredo Scirpi (Cast.) Arth.
Scirpus fluviatilis, S. campestris, Sium cicutaefolium. Kulm, 1909.
(Fungi Dak. *120, 120a, 179, 374.*)
Nigredo Silphii (Burrill) Arth.
On *Juncus tenuis.* Kulm, 1908.
(Fungi Dak. *21.*)
Nigredo Trifolii (Hew.) Arth.
On *Trifolium pratense,* and *T. repens.* Kulm, Fargo, 1914, Stevens.
(Fungi Dak. *74, 283, 375.*)
Phragmidium americanum Arth.
On *Rosa blanda.* Kulm, July, 1908.
(Fungi Dak. *7.*)
Phragmidium Andersoni Shear.
On *Dasiphora fruticosa tenuifolia.* Sentinel Butte, Aug., 1916.
(Fungi Dak. *408.*)
Phragmidium imitans Arth.
On *Rubus strigosus.* Delaney's Ranch, Aug., 1915.
(Fungi Dak. *360.*)
Phragmidium montivagum Arth.
On *Rosa* sp. Sentinel Butte, Aug., 1916.
(Fungi Dak. *203.*)
Phragmidium Potentillae (Pers.) Karst.
On *Potentilla bipinnatifida, P. pennsylvanica.* Leeds, 1912, Lunell.
On *Potentilla pennsylvanica strigosa.* Kulm, 1907.
(Fungi Dak. *6, 180, 180a.*)
Phragmidium Rosae-acicularis Liro.
On *Rosa heliophylla.* Kulm, July, 1912.
(Fungi Dak. *181.*)
Phragmidium Rosae-arkansanae Dietel.
(Fungi Dak. *152, 182, 285, 362.*)
Pileolaris Toxicodendri (Berk. & Rav.) Arth.
On *Rhus radicans.* Kulm, June, 1908.
(Fungi Dak. *22.*)
Polythelis Pulsatillae (Rost.) Arth.
On *Pulsatilla hirsutissima.* Kulm, June, 1908.
(Fungi Dak. *129.*)
Polythelis Thalictri (Chev.) Arth.
On *Thalictrum dasycarpum.* Fargo, 1915, Stevens.
(Fungi Dak. *317.*)
Puccinia ambigua (Albert. & Schw.) Lagh.
On *Galium Aparine.* Beaver Lake, July, 1909.
(Fungi Dak. *59.*)
Puccinia amphigena Diet.
On *Calamovilfa longifolia.* Kulm, Oct., 1910.

On *Smilax herbacea.* Kulm.
(Fungi Dak. *80.*)

Puccinia amphibii Fuckel.
On *Polygonum emersum.* Kulm, Aug., 1908.
(Fungi Dak. *41.*)

Puccinia Andropogonis Schw.
On *Andropogon furcatus, A. Hallii,* and *A. scoparius.* Kulm and other places, also 1884, Seymour.
(Fungi Dak. *42, 315.*)

Puccinia Anemones-virginianae Schw.
On *Anemone virginiana.* Wild Rice, Aug., 1914, Stevens.
(Fungi Dak. *289.*)

Puccinia angustata Peck.
On *Scirpus atrovirens.* Kulm, Oct., 1909.
On *Lycopus americanus.*
(Fungi Dak. *105, 105a.*)

Puccinia apocrypta Ellis & Tracey.
On *Elymus canadensis.* Kulm, July, 1911.
(Fungi Dak. *128.*)

Puccinia Asparagi DC.
On *Asparagus officinalis.* Leeds, Sept., 1914, Lunell.
(Fungi Dak. *261.*)

Puccinia Asteris Duby.
On *Aster longifolius, A. multiflorus, A. Novae-Angliae,* and *A. paniculatus.* Kulm, Aug., 1908; Leeds, Sept., 1914, Lunell.
(Fungi Dak. *60, 290.*)

Puccinia atropuncta Peck & Clint.
On *Zygadenus elegans.* Kulm, Aug., 1909.

Puccinia Bartholomaei Diet.
On *Bouteloua oligostachya.* Kulm, Oct., 1913.
(Fungi Dak. *183.*)

Puccinia Caricis-asteris Arth.
On *Aster longifolius, A. multiflorus.* Kulm, Aug., 1909.

Puccinia cinerea Arth.
On *Puccinellia airoides* and *Oxygraphis Cymbalaria.* Kulm, June and Sept., 1912.
(Fungi Dak. *185, 185a.*)

Puccinia Cirsii Lasch.
On *Cirsium Flodmannii.* Kulm, Aug., 1909.
(Fungi Dak. *64.*)

Puccinia Convolvuli Cast.
On *Calystegia sepium.* Fargo, Valley City, 1884, Seymour.

Puccinia Coronata Corda.
On *Avena sativa, Calamagrostis hyperborea,* and *Scolochloa festucacea.* Kulm, Oct., 1911, also 1884, Seymour.
(Fungi Dak. *340, 340a, 414, 113.*)

Puccinia Crandellii Pam. & Hume.
On *Festuca ovina, Symphoricarpos occidentalis.* Kulm, June, 1909.
(Fungi Dak. *81, 76 Aecidium abundans* Peck.)

Puccinia DeBaryana Thüm.
On *Pulsatilla hirsutissima.* Kulm, June, 1908.
(Fungi Dak. *61.*)
Puccinia distichlis Ellis & Everh.
On *Spartina Michauxiana,* and *S. gracilis.* Kulm.
On *Steironema ciliatum.* Kulm, Oct., 1908, and Fargo, May, 1915, Stevens.
(Fungi Dak. *108, 316.*)
Puccinia Eatoniae Arth.
On *Sphenopholis obtusata,* and *S. pallens.* Beaver Lake, July, 1909.
On *Ranunculus abortivus.* Fargo, May, 1915. Stevens.
(Fungi Dak. *184.*)
Puccinia Ellisiana Thüm.
On *Andropogon scoparius.* Kulm, Aug., 1909.
On *Viola papilionacea,* and *V. Lunellii.* Kulm, May, 1912.
(Fungi Dak. *40, 151 Aecidium Violae* Schum.)
Puccinia Epilobii DC.
On *Epilobium paniculatum.* Wild Rice, Aug., 1915, Stevens.
Puccinia extensicola Plowr.
On *Carex cephaloidea, C. festucacea, C. viridula. C. vulpinoidea* and other spp. of *Carex.* Kulm, Fargo, Washburn, Bismark, Stevens.
On *Aster multiflorus, A. paniculatus, Solidago canadensis, S. serotina,* and *S. missouriensis.* Kulm, Fargo.
(Fungi Dak. *341, 341a, 364, 364a, 103 Aecidium solidaginicolum.*)
Puccinia flosculosarum (Albert. & Schw.) Roehl.
On *Cnicus.* Fargo, 1884, Seymour.
Puccinia fraxinata (Schw.) Arth.
Spartina Michauxiana, S. gracilis, and *Fraxinus lanceolata.* Kulm, Sept., 1909, and June, 1908.
(Fungi Dak. *15, 2 Aecidium Fraxini* Schw.)
Puccinia Gentiani (Str.) Link.
On *Gentiana affinis.* Leeds, Sept., 1916, Lunell.
On *Gentiana puberula.* Kulm, Sept., 1913, also 1884, Seymour.
(Fungi Dak. *415.*)
Puccinia gigantispora Bubak.
On *Anemone cylindrica.* Kulm, July, 1908.
Puccinia graminis Pers.
On *Agropyron pseudorepens, A. tenerum, A. occidentalis, A. Richardsonii, Avena fatua, A. sativa, Beckmannia erucaeformis, Elymus canadensis, Hordeum jubatum, H. vulgare, Koeleria cristata, Triticum sativum,* and *T. Spelt.* Kulm, Aug., 1910.
(Fungi Dak. *13, 43, 44, 44a, 44b, 44c.*)
Puccinia Grindeliae Peck.
On *Gutierrezia Sarothrae.* Beaver Lake, July, 1908.
Puccinia Grossulariae (Schum.) Lagerh.
On *Carex laxiflora.* Fargo, Sept., 1915, Stevens.
On *Ribes floridum, R. americanum,* and *R. Uva-crispa.* Kulm, Leeds, and Lunell.
(Fungi Dak. *365, 201* as *Aecidium Grossulariae* DC.)

Puccinia Helianthi Schw.
On *Helianthus annuus, H. Maximiliani, H. nitidus, H. subrhomboideus, H. tuberosus.* Kulm, Fargo, Leeds, Beaver Lake, also 1884, Seymour.
(Fungi Dak. *45, 45a, 153, 153a, 366.*)

Puccinia hemisphaerica (Peck) Ellis & Everh.
On *Lactuca pulchella.* Kulm, July, 1909.
(Fungi Dak. *62, 62a.*)

Puccinia Heucherae (Schw.) Diet.
On *Heuchera hispida.* Kulm, June, 1909.
(Fungi Dak. *63.*)

Puccinia Hieracii (Schw.) Mart.
On *Hieracium umbellatum.* Turtle Mts., Aug., 1907, Lunell.

Puccinia Impatientis (Schw.) Arth.
On *Impatiens biflora.* Fargo, July, 1915, Stevens.

Puccinia Koeleriae Arth.
On *Koeleria cristata.* Kulm, Aug., 1909.
(Fungi Dak. *82.*)

Puccinia Kuhniae Schw.
On *Kuhnia eupatorioides.* Bismark, Valley City, 1884, Seymour.

Puccinia ludibunda Ellis & Everh.
On *Carex Bebbii.* Beaver Lake, Aug., 1912.
(Fungi Dak. *186.*)

Puccinia Menthae Pers. var. *americana* Peck.
On *Mentha canadensis,* and *Monarda fistulosa.* Kulm, Mandan, Bismark, also 1884, Seymour.
(Fungi Dak. *14, 342.*)

Puccinia montanensis Ellis.
On *Agropyron tenerum, A. occidentale, Elymus canadensis, Onosmodium molle, Lithospermum angustifolium,* and *Thalictrum dasycarpum.* Kulm, Fargo, Leeds.
(Fungi Dak. *343, 104, Aecidium Thalictri, 343, 367, 367a.*)

Puccinia Muhlenbergiae Arth. & Holw.
On *Muhlenbergia racemosa.* Kulm, March, 1910.
(Fungi Dak. *110.*)

Puccinia Opizii Bubak.
On *Carex camporum, C. saccata, Lactuca pulchella, L. Scariola,* and *Nabalus racemosus.* Kulm, June, 1909, Aug., 1909, Leeds, Oct., 1916, Lunell.
(Fungi Dak. *111, 111a, 417.*)

Puccinia ornata Arth. & Holw.
On *Rumex occidentalis.* Towner, July, 1913, Lunell.

Puccinia Peckii Arth.
On *Carex Hookeriana.* Pleasant Lake, July, 1912, Lunell.
On *Carex lanuginosa, Oenothera strigosa,* and *Meriolix serrulata.* Kulm, June, and Aug., 1909.
(Fungi Dak. *65, 65a, 112.*)

Puccinia Poarum Neils.
On *Poa pratensis.* Fargo, Oct., 1914, Stevens.
(Fungi Dak. *291.*)

Puccinia Pruni-spinosae Pers.
On *Prunus americana.* Valley City, 1884, Seymour.
Puccinia pustulata Arth.
On *Andropogon furcatus, A. Hallii,* and *Comandra pallida.* Kulm, June, 1909.
(Fungi Dak. *83, 83a, 368.*)
Puccinia quadriporula Arth.
On *Carex Heydeni.* Kulm, July, 1908.
(Fungi Dak. *243.*)
Puccinia Rubella (Pers.) Arth.
On *Phragmites communis.* Leeds, Sept., 1912, Lunell.
On *Rumex salicifolia.* Fargo, June, 1915.
(Fungi Dak. *187.*)
Puccinia rubefaciens Johans.
On *Galium boreale.* Kulm, Aug., 1908.
On *G. linearifolium.* Leeds, Lunell, also 1884, Seymour.
(Fungi Dak. *16, 244.*)
Puccinia Rubigo-vera (DC.) Wint.
On *Hordeum jubatum.* Kulm, Oct., 1909.
(Fungi Dak. *154.*)
Puccinia Seymouriana Arth.
On *Asclepias speciosa.* Bismark, Aug. *22,* 1915.
Puccinia similima Arth.
On *Anemone canadensis.* Kulm, June, 1909.
On *Phragmitis communis.* Kulm, Nov., 1914.
(Fungi Dak. *115, 292.*)
Puccinia Sherardiana Koern.
On *Malvastrum coccineum.* Kulm, June, 1910.
(Fungi Dak. *66.*)
Puccinia Silphii Schw.
On *Silphium perfoliatum.* Fargo, July, 1914, Stevens and Seaver.
(Fungi Dak. *262.*)
Puccinia Sorghi Schw.
On *Zea Mays.* Kulm, Sept., 1908.
On *Oxalis stricta.* Kulm.
(Fungi Dak. *114, 114a.*)
Puccinia Sporoboli Arth.
On *Sporobolus heterolepis.* Kulm, Aug., 1915.
(Fungi Dak. *344.*)
Puccinia Stipae Arth.
On *Stipa spartea, Solidago missouriensis,* and *S. mollis.* Kulm, June and Aug., 1910, also 1884, Seymour.
(Fungi Dak. *67, 188.*)
Puccinia subnitens Diet.
On *Distichlis maritima,* and *Atriplex hastata.* Kulm, Aug., 1908.
(Fungi Dak. *47, 130.*)
Puccinia substerilis Ellis & Everh.
On *Stipa viridula.* Kulm, Jan., 1908.
(Fungi Dak. *84.*)

Puccinia Tanaceti DC.
On *Artemisia cana, A. frigida, A. longifolia,* and *A. ludoviciana.* Kulm, Sentinal Butte, and Leeds, also 1884, Seymour.
(Fungi Dak. *318, 418.*)
Puccinia Taraxaci (Recent.) Plowr.
On *Taraxacum officinale.* Kulm, Aug., 1908.
(Fungi Dak. *69.*)
Puccinia tosta Arth.
On *Sporobolus cuspidatus,* and *S. asperifolius.* Kulm, Oct., 1909.
(Fungi Dak. *46, 116.*)
Puccinia tomipara Trelease.
On *Bromus purgans.* Voltaire, Fred Schmidt, Jr.
Puccinia triticina Ericks.
On *Triticum vulgare.* Kulm, Aug., 1914.
(Fungi Dak. *345.*)
Puccinia universalis Arth.
On *Carex pennsylvanica, C. stenophylla,* and *C.* sp. Kulm, June, 1908.
On *Artemisia biennis, A. frigida, A. longifolia,* and *A. ludoviciana.* Kulm.
On *Hieracium umbellatum.* Fargo, June, 1915, Stevens.
(Fungi Dak. *106, 242, 189, 117, 131, 346.*)
Puccinia Urticae (Schw.) Lagerh.
On *Carex stricta, C. atherodes,* and *Urtica gracilis.* Kulm and Fargo.
(Fungi Dak. *12, 118, 294.*)
Puccinia Vernoniae Schw.
On *Vernonia fasciculata.* Kulm, Aug., 1915.
(Fungi Dak. *369.*)
Puccinia vexans Farl.
On *Atheropogon curtipendulus.* Kulm, March, 1908.
(Fungi Dak. *17.*)
Puccinia Violae (Schum.) DC.
On *Viola canadensis, V. papilionacea, V. arenaria.* Kulm, Sept., 1909.
(Fungi Dak. *245, 370, 419.*)
Puccinia Vulpinoidis Arth.
On *Carex vulpinoidea.* Kulm, Aug., 1908.
Puccinia Xanthii Schw.
On *Xanthium canadense.* Medora, 1884, Seymour.
Pucciniastrum Agrimoniae (Schw.) Tranz.
On *Agrimonia hirsuta.* Kulm, Aug., 1909.
(Fungi Dak. *85.*)
Pucciniastrum arcticum-americanum Farl.
On *Rubus strigosus.* Fargo, Oct., 1914.
(Fungi Dak. *293.*)
Pucciniastrum pustulatum (Pers.) Diet.
On *Chamaenerion angustifolium.* Sentinel Butte, Aug., 1916.
On *Epilobium adenocaulon.* Minot, Aug., 1915, Stevens.
(Fungi Dak. *371, 420.*)
Schizonella melanogramma (DC.) Schröt.
On *Carex pennsylvanica.* Kulm, July, 1913.
(Fungi Dak. *246.*)

Sphacelotheca montaniensis (Ellis & Everh.) Clint.
On *Muhlenbergia glomerata.* Beaver Lake, July, 1909.
(Fungi Dak. *190.*)
Sphacelotheca occidentalis (Seym.) Clint.
On *Andropogon Hallii.* Anselm, Aug., 1916.
(Fungi Dak. *421.*)
Sorosporium Ellisii Wint. var. *occidentalis* Seymour.
On *Andropogon furcatus.* Bismark, Sept., 1884, Seymour.
Sorosporium Syntherismae (Peck) Farl.
On *Cenchrus tribuloides.* Powers' ranch, Aug., 1916, Stevens.
Tilletia Earlei Griff.
On *Agropyron repens.* Leeds, Oct., 1916, Lunell.
Tilletia Tritici (Bjerk.) Wint.
On *Triticum vulgare* and *T. Spelta.* Kulm, Aug., 1909.
(Fungi Dak. *132, 132a.*)
Urocystis Anemones (Pers.) Schroet.
On *Pulsatilla hirsutissima.* Kulm, June, 1908.
(Fungi Dak. *18.*)
Uromyces astragalicola P. Henn.
On *Astragalus adsurgens.* Sentinel Butte, Aug., 1916.
(Fungi Dak. *425.*)
Uromyces dictyosperma Ellis & Everh.
On *Tithymalus missouriensis.* Fargo, July, 1914.
Uromyces Glycyrrhizae (Rabh.) Magnus.
On *Glycyrrhiza lepidota.* Kulm, June, 1908.
(Fungi Dak. *19.*)
Uromyces Rudbeckiae Arth. & Holw.
On *Rudbeckia laciniata.* Fargo, July, 1914.
(Fungi Dak. *274.*)
Uromycopsis porosa (Peck) Arth.
On *Vicia americana, V. linearis,* and *Psoralea argophylla.* Kulm, June, and Aug., 1909.
(Fungi Dak. *73, Uromyces Psoraleae* (Pers.) Fuckel, *191, 191a, 205, 3.*)
Uropyxis Amorphae Schroet.
On *Amorpha canescens, A. fruticosa,* and *A. nana.* Kulm, and Beaver Lake, also 1884, Seymour.
(Fungi Dak. *88, 192, 192a, 248.*)
Uropyxis Petalostemonis Farl.
On *Kuhnistera candida.* Kulm, June, 1909, also 1884, Seymour.
(Fungi Dak. *89.*)
Ustilago Avena var. *levis* Kellerm. & Swing.
On *Avena sativa.* Kulm, July, 1908.
(Fungi Dak. *90.*)
Ustilago foetens (Berk. & Curt.) Tul.
On *Triticum vulgare.* Kulm, Sept., 1908.
Ustilago Hieronymi Schroet.
On *Atheropogon curtipendulus.* Beaver Lake, July, 1909.
(Fungi Dak. *75.*)

Ustilago Hordei (Pers.) Kellerm. & Swing.
On *Hordeum vulgare*. Kulm, Aug., 1908.
(Fungi Dak. *23*.)
Ustilago hypodytes (Schl.) Fr.
On *Stipa spartea*. Beaver Lake, July, 1909.
Ustilago levis (Kellerm. & Swing.) Magn.
On *Avena sativa*. Kulm, July, 1909.
(Fungi Dak. —.)
Ustilago Lorentziana Thüm.
On *Hordeum jubatum*. Kulm, July, 1908.
(Fungi Dak. *24*.)
Ustilago longissima (Sow.) Tul.
On *Panicularia americana*. Kulm, Aug., 1909.
(Fungi Dak. *135*.)
Ustilago Maydis (DC.) Corda.
On *Zea Mays*. Kulm, Aug., 1908.
(Fungi Dak. *156*.)
Ustilago neglecta Niessl.
On *Chaetochloa glauca*. Fargo, 1907, Seaver.
(Fungi Dak. *275*.)
Ustilago nuda Kellerm. & Swing.
On *Hordem vulgare*. Kulm, July, 1908.
(Fungi Dak. *25*.)
Ustilago Panici-miliacei (Pers.) Wint.
On *Panicum miliaceum*. Kulm, Aug., 1909.
(Fungi Dak. *91*.)
Ustilago Tritici (Pers.) Jens.
On *Triticum vulgare*. Kulm, July, 1907.
(Fungi Dak. *167*.)
Ustilago subinclusa Körn.
On *Carex trichocarpa* var. *Deweyi*. Bismark, Sept., 1884, Seymour.

IV. HIGHER BASIDIOMYCETES

Agaricus campestris Linn.
On pastures and prairies. July, 1910.
Agaricus campestris L. var. *praticola*. (A large fleshy variety.)
On manure. Kulm, June, 1910.
Bovista pila Berk.
In pasture under trees. Kulm, June, 1913.
(Fungi Dak. *304*.)
Bovista plumbea Pers.
Barnyards and pastures. Kulm, fall, 1909.
(Fungi Dak. *92*.)
Bovistella echinella Pat.
On moss sod. Anselm, Aug., 1916.
(Fungi Dak. *376*.)
Bovistella dealbata (Sacc.) Lloyd.
On lawn. Kulm, July, 1908.

Calvatia caelata Bull.
On open prairie. Dickenson, L. R. Waldron, also Kulm.
(Fungi Dak. *171.*)
Calvatia lilacina var. *occidentalis* Lloyd.
On open prairie. Kulm, July, 1908.
(Fungi Dak. *172.*)
Catastoma circumscissum Berk. & Curt.
On pastures. Kulm, Sept., 1908.
(Fungi Dak. *29.*)
Catastoma nigrescens Lloyd.
On old manured ground. Kulm, fall, 1908.
(Fungi Dak. *207.*)
Catastoma subterraneum Lloyd.
Waste places. Dickenson, L. R. Waldron.
Clitocybe dealbata Sow.
On pastures. Kulm, Aug., 1911.
Clitocybe infundibuliformis Schaeff.
Soil in woods. Anselm, Aug., 1916.
Coprinus atramentarius (Bull.) Fr.
Around cotton-wood stumps. Kulm, July, 1914.
Coprinus comatus Fr.
On newly turned soil. Kulm, Oct., 1911.
Coprinus ephemerus Fr.
On fresh manure. Kulm, May, 1908.
Coprinus micaceus Fr.
Waste places on soil. Kulm, May, 1908.
Coprinus fimetaris Fr.
On new manure. Kulm, May, 1910.
Cortinarius ochroleucus Fr.
On soil under trees. Kulm, July, 1914.
Corticium byssinum (Karst.) Burt.
On *Symphoricarpos occidentalis.* Kulm, July, 1916.
Corticium cremicolor Berk. & Curt.
On *Corylus americana.* Fargo, Nov., 1916, Stevens.
Corticium laetum Karst.
On *Symphoricarpos occidentalis.* Kulm, Nov., 1916.
Corticium vellereum Ellis & Cragin.
On *Populus tremuloides.* Camp Crook, S. Dak., July, 1912, Weir.
Crucibulum vulgare Tul.
On leaves and twigs, in woods. Anselm, Aug., 1916.
Cyathus Schweinitzii Tul.
On twigs. Kulm, Apr., 1908. Fargo, woods, July, 1914. Valley City, June, 1906, Perrine.
Cyathus stercoreus Schw.
On manure and soil. Kulm, Sept., 1908.
Cyathus vernicosus DC.
Valley City, June, 1906, Perrine.

Daedalea confragosa (Bolt.) Pers.
On *Salix*. Kulm, Fargo, and Ft. Ransom.
(Fungi Dak. *356*.)
Daedalea unicolor Bull.
On wood. Fargo, July, 1914.
Fomes applanatus Pers.
On *Populus deltoides*. Kulm and Ft. Ransom, 1916. Camp Crook, S. D., Weir.
Fomes conchatus Pers.
On *Salix longifolia*. Kulm, Oct., 1916.
Fomes Ellisianus Anders.
On *Shepherdia argentea*. Camp Crook, S. D., 1912, Weir, Dickenson, Sept. 1, 1916.
(Fungi Dak. *380*.)
Fomes fomentarius Gill.
On birch cordwood (shipped in). Kulm, 1909.
Fomes fraxinophilus Peck.
On *Fraxinus lanceolata*, and (*Quercus macrocarpa ?*). Fargo, 1914, and Ft. Ransom, 1916. Camp Crook, S. D., 1912, Weir.
(Fungi Dak. *381*.)
Fomes igniarius (L.) Gill.
On *Ostrya virginiana* and *Populus tremuloides*. Fargo, 1914, 1916, Stevens. Camp Crook, S. Dak., 1912, Weir.
Fomes Laricis Rubel.
On *Pinus ponderosa*. Camp Crook, S. D., 1912, Weir.
Fomes ohiensis Berk.
On *Quercus macrocarpa*. Fargo woods, June, 1914.
Fomes Pini (Brot.) Lloyd.
On *Pinus ponderosa*. Camp Crook, S. D., 1912, Weir.
Fomes pinicola Swartz.
On *Pinus ponderosa*. Camp Crook, S. D., 1912, Weir.
Fomes pomaceus Pers.
On *Prunus americana* and *P. melanocarpa*. Fargo, Ft. Ransom and Sentinal Butte, N. D., also Camp Crook, S. D., Weir.
(Fungi Dak. *382*.)
Fomes Ribis (Schum.) Gill.
On *Symphoricarpos occidentalis* in the fall. Kulm and Bismark, 1910.
(Fungi Dak. *404*.)
Fomes scutellatus Schw.
On *Acer negundo*. Ft. Ransom, Aug., 1916.
Galera crispa Longyear.
On lawns. Kulm, July, 1914.
Galera lateritia Fr.
On lawns. Kulm, Aug., 1915.
Galera tener (Schaeff.) Quél.
On lawns. Kulm, July, 1912.
Geaster asper Michel.
Waste places on soil. Kulm, 1908. Leeds, 1910, Lunell.
(Fungi Dak. *35*.)

Geaster floriformis Vitt.
On prairie. Kulm, 1906.
(Fungi Dak. *36.*)
Geaster mammosus Chev.
On soil in woods. Fargo, 1905, L. R. Waldron.
(Fungi Dak. *254.*)
Geaster saccatus Fr.
On soil in woods. Anselm, Aug., 1916.
Hebeloma glutinosum Linn.
On old straw. Kulm, Sept., 1911.
Hymenochaete cinnamomea Pers.
On *Corylus americana.* Fargo, Nov., 1916, Stevens.
Hymenochaete Curtisii Berk.
On *Quercus marcrocarpa.* Ft. Ransom, Aug., 1916.
Hymenochaete tabacina (Sow.) Lev.
On *Amelanchier alnifolia.* Camp Crook, S. D., July, 1912, Weir.
Irpex lacteus Fr.
On *Fraxinus lanceolata, Populus deltoides, Prunus americana, Symphoricarpos occidentalis,* and *Vitis vulpinus.* Kulm, Fargo, and Ft. Ransom.
(Fungi Dak. *122.*)
Lentinus squamosus Schaef.
On R. R. ties. Kulm, May, 1910.
Lenzites betulina (L.) Fr.
On birch. Walhalla, Waldron.
Lenzites saepiaria Fr.
On R. R. ties. Kulm.
On *Pinus ponderosa.* Camp Crook, S. D., Weir.
(Fungi Dak. *405.*)
Lenzites vialis Peck.
On pine board. Kulm, July, 1914.
Lepiota granulosa Batsch.
On wood, under trees. Kulm, July, 1914.
Lepiota naucina Fr.
On lawn. Kulm, Sept., 1911, and Dacotah, Brenckle.
Lepiota procera Scop.
In meadow. Kulm, June, 1908.
Lycoperdon cepaeforme Morg.
On prairie. Kulm, and Dickenson, 1906, Waldron.
(Fungi Dak. *93.*)
Lycoperdon cruciatum Roth.
On prairie. Dickenson, 1906, Waldron.
Lycoperdon dakotensis Brenckle & Lloyd.
On prairie. Kulm, 1908.
(Fungi Dak. *94.*)
Lycoperdon gemmatum Batsch.
On soil in woods. Ft. Ransom, Aug., 1916, Stevens.
Lycoperdon rimulatum Peck.
On sand hills. Anselm, Aug., 1916.

Lycoperdon umbrinum Pers.
On decaying wood. Ft. Ransom, Aug., 1916, Stevens.
Lycoperdon Wrightii Berk. & Curt.
On prairie. Kulm, June, 1907.
(Fungi Dak. *95*.)
Marasmius caricicola Kauffm.
On *Carex* culms and leaves. Kulm, Sept., 1914.
Marasmius oreades Fr.
In meadow. Kulm, July, 1912.
Marasmius rotula Fr.
On old *Acer negundo*. Kulm, Aug., 1911.
(Fungi Dak. *173*.)
Marasmius siccus Schw.
On twigs and wood. Anselm, Aug., 1916.
Mycenastrum corium Desv.
On old manure. Kulm, Aug., 1908. Fargo, Stevens.
(Fungi Dak. *170*.)
Naucoria pediades Fr.
In meadow. Kulm, June, 1914.
Omphalia pyxidata Bull.
On moss sod. Kulm, Aug., 1911.
Panaeolus solidipes Peck.
On manure. Kulm, June, 1909.
Panaeolus fimicola Fr.
On cow dung. Kulm, Aug., 1911.
Panaeolus retirugis Fr.
On old straw. Kulm, July, 1911.
Peniphora Allescheri Bres.
On *Populus angustifolia*. Camp Crook, S. D., Weir.
Peniphora cinerea Cooke.
On *Symphoricarpos occidentalis*. Kulm, Nov., 1916.
Peniphora crassa Burt.
On *Pinus ponderosa*. Camp Crook, S. D., 1912, Weir
Phlebia reflexa Berk.
On *Populus tremuloides*. Anselm, Aug., 1916.
Pholiota adiposa Fr.
On lawn. Kulm, Aug., 1914.
Pholiota praecox Pers.
On prairie. Kulm, May, 1908.
Pholiota praecox Pers. var. *minor* Batt.
On low meadow. Kulm, May, 1910.
Pleurotus ostreatus Jacq.
On *Populus deltoides*. Kulm, Aug., 1911.
Polyporus adustus Willd.
On *Acer Negundo*, and *Populus deltoides*. Kulm, 1911.
On *Populus angustifolia*. Camp Crook, S. D., 1912, Weir.
Polyporus amorphus Fr.
On *Pinus ponderosa*. Camp Crook, S. D., Weir.

Polyporus cryptopus Ellis.
On prairie. Kulm, July, 1909.
(Fungi Dak. *148.*)
Polyporus dichrous Fr.
On *Fraxinus lanceolata.* Ft. Ransom, Aug., 1916.
On *Populus tremuloides.* Camp Crook, S. D., July, 1912, Weir.
Polyporus elegans Bull.
On fallen branches. Mandan, Aug., 1915.
Polyporus gilvus (Schw.) Fr.
On *Quercus macrocarpa,* and *Prunus americana.* Fargo, Nov., 1915, Stevens.
(Fungi Dak. *411.*)
Polyporus spumeus Sow.
On *Populus angustifolia.* Camp Crook, S. D., 1912, Weir.
Polystictus conchifer Schw.
On log (*Ostrya virginica ?*). Power's ranch, Aug., 1916.
Polystictus hirsutus Wolf.
On *Quercus macrocarpa,* and *Prunus americana.* Kulm, Delaney's Ranch.
Polystictus pargamenus Fr.
On *Populus tremuloides.* Fargo, Ft. Ransom, Aug., 1916, Waldron, Stevens.
(Fungi Dak. *412.*)
Polystictus planus Peck.
On fallen twigs. Anselm, Aug., 1916.
Polystictus versicolor Fr.
On *Prunus americana* and *Quercus macrocarpa.* Kulm and Fargo, Waldron.
(Fungi Dak. *413, 413a.*)
Poria laminata Murr.
On *Prunus americana.* Fargo, Nov., 1916, Stevens.
Poria punctata Fr.
On *Tilia americana.* Anselm, Aug., 1916.
Russula emetica Fr.
On soil in woods. Anselm, Aug., 1916.
Schizophyllum commune Fr.
On *Acer Negundo.* Kulm, Nov., 1911 and Fargo, 1906, Waldron.
Secotium acuminatum Mont.
Waste places. Kulm, Aug., 1908 and Dickenson, Waldron.
(Fungi Dak. *49.*)
Stereum fasciatum Schw.
On *Populus tremuloides.* Camp Crook, S. D., 1912, Weir.
(Fungi Dak. *422.*)
Stereum frustulatum Fr.
On *Quercus macrocarpa.* Fargo, June, 1914.
Stereum purpureum Pers.
On *Acer Negundo.* Kulm, Camp Crook, S. D., Weir.
(Fungi Dak. *175.*)
Stereum rufum Fr.
On *Populus tremuloides.* Fargo, July, 1914.
(Fungi Dak. *279,* as *Hypocrea Richardsoni* Berk. & Mont.)

Stereum versicolor Fr.
Woods. Fargo, 1906, Waldron.
Thelephora cuticularis Berk.
On wood. Anselm, Aug., 1916.
Thelephora terrestris Ehrh.
On pine needles. Camp Crook, S. D., Weir.
(Fungi Dak. *423*.)
Trametes carnea Nees.
On *Pinus ponderosa*. Camp Crook, S. D., 1912, Weir.
Trametes hispida Bagl.
On *Populus deltoides*. Kulm, June, 1913.
On *Populus angustifolia*. Camp Crook, S. D., Weir.
Trametes setosus Weir.
On *Pinus ponderosa*. Camp Crook, S. D., June, 1912, Weir.
Trametes suaveolens Linn.
On *Populus tremuloides*. Camp Crook, S. D., 1912, Weir.
Tricholoma paedidum Fr.
In pasture. Kulm, July, 1914.
Tricholoma melaleucum Pers.
On soil under trees. Kulm, July, 1914.
Tricholoma equestre L. ?
On prairie. Kulm, Aug., 1910.
Tylostoma americanum.
Waste places. Dickenson, 1906, Waldron.
Tylostoma mammosum (Mich.) Fr.
Manure. Kulm, July, 1907.

V. FUNGI IMPERFECTI

Actinonema Rosae (Lib.) Fr.
On *Rosa heliophylla*. Fargo, Stevens.
Alternaria tenuis Nees.
On leaves of *Populus deltoides*. Kulm, Aug., 1914.
Botrytis vulgaris Link, var. *interrupta* Trans.
On galls of *Populus deltoides*. Kulm, Aug., 1913.
Cercospora Absinthii Sacc.
On *Artemisia Absinthium*. Kulm, Aug. 24, 1916.
(Fungi Dak. *402*.)
Cercospora Alismatis Ellis & Holw.
On *Alisma Plantago-aquatica*. Kulm, July, 1908.
Cercospora avicularis Wint.
On *Polygonum aviculare*. Kulm, July, 1908.
Cercospora Chenopodii Fres.
On *Chenopodium album*, and *C. rubrum*. Aug., 1908.
(Fungi Dak. *32*, *194*.)
Cercospora circumscissa Sacc.
On *Prunus melanocarpa* and *P. americana*. Kulm, June, 1908.
(Fungi Dak. *31*.)
Cercospora elaeochroma Sacc. n. sp.
On *Asclepias speciosa*. Bismark, Aug., 1915.
(Fungi Dak. *354*.)

Cercospora dubia Fr.
On *Atriplex hastata*. Kulm, Aug., 1908.
Cercospora melanochaeta Ellis & Everh.
On *Celastrus scandens*. Delaney's Ranch, Aug., 1915.
Cercospora Pentstemonis Ellis & Kellerm.
On *Pentstemon grandiflorus*. Anselm, Aug., 1916, Stevens
Cercospora Violae Sacc.
On *Viola papilionacea*. Kulm, July, 1913.
(Fungi Dak. *228*.)
Cercosporella Anethi Sacc. n. sp.
On *Anethum graveolens*. Kulm, Oct., 1914.
(Fungi Dak. *353*.)
Cicinnobolus Casatii DeBary.
On conidia. Kulm, July, 1912.
(Fungi Dak. *196*.)
Cladosporium graminum Corda, f. *caricicola* Sacc.
On *Carex festucacea*. Kulm, Aug., 1913.
Cladosporium Typharum Desm.
On *Typha latifolia*. Kulm, July, 1913.
Coniothecium Mollerianum Thüm.
On stems of *Aster multiflorus*. Kulm, July, 1913.
Colletotrichum Lindemuthianum (Sacc.) Bri. & Cav.
On *Phaseolus nanus*. Kulm, Aug., 1908.
Colletotrichum lineota Corda.
On *Andropogon furcatus*. Kulm, May, 1915.
Coryneum salicinum (Corda) Sacc.
On *Salix longifolia*. Kulm, Feb., 1913.
(Fungi Dak. *210*.)
Cylindrosporium Heraclei Ellis & Everh.
On *Heracleum lanatum*. Wirch Lake, June, 1910.
Cylindrosporium Toxicodendri (Curt.) Ellis & Everh.
On *Rhus radicans*. Kulm and Leeds, July, 1914, Lunell.
(Fungi Dak. *273*.)
Darluca filum (Bivon.) Cast.
On various uredinia. Kulm and Fargo, Stevens.
Didymaria Astragali Ellis & Holw.
On *Astragalus carolinianus*. Kulm, Aug., 1914.
Dinemasporium graminum (Lib.) Lev. var. *strigosulum* Karst.
On old *Agropyron tenerum*. Kulm, July, 1913.
Dinemasporium hispidulum (Schrad.) Sacc.
On *Acer Negundo*. Kulm, Oct., 1914.
Ellisiella caudata Sacc.
On *Andropogon furcatus*. Kulm, July, 1914.
Epicoccum neglectum Desm.
On *Lotus americanus*. Kulm, June, 1915.
Fusarium cinnabarium Sacc.
On *Acer Negundo*. Kulm, Aug., 1910.
Fusarium Lini Bolley.
On *Linum usitatissimum*. Kulm, Aug., 1909.
(Fungi Dak. *55*.)

Fusicladium dentriticum Fuckel.

On apple and crab-apple leaves. Kulm and Garrison, Aug., 1915, Stevens. (Fungi Dak. *229*.)

Fusicoccum dakotense Sacc. & Syd. n. sp.

On *Prunus melanocarpa*. Kulm, May, 1913.

Gloeosporium septorioides Sacc.

On *Quercus macrocarpa*. Fargo, July, 1914.

Helminthosporium avenaceum Curt.

On *Avena sativa*. Kulm, Aug., 1914.

Helminthosporium Urtici = *H. Urticum* Peck.

On dead stems of *Urtica gracilis*. Kulm, Oct., 1916.

Forming dark brown, velutine spots, widely effused to completely covering sections of the stems.

Hyphae brown, erect, at first short, one or two septate, later proliferous, elongated and branched with many septa, to 300 μ long. Cells of the hyphae are often bulbous at the apex, 15 to 40 μ long, 3 to 6 μ in diameter, 6 to 8 μ at the bulbous apex. Cells are sometimes offset at the joints.

Conidia are abundant, cylindrical, rounded at ends, brown, 3-septate, minutely and obscurely warted, 16 to 30 $\times$ 6 to 9 μ.

Hendersonia arundinacea (Desm.) Sacc.

On *Phragmites communis*. Kulm, Nov., 1914.

Hendersonia Crataegi n. sp.

On leaves of *Crataegus mollis*. Fargo, Sept. and Oct., 1916, Stevens.

Causes irregular brown areas of various sizes outlined by the capillary veins.

Mature acervuli few, usually epiphyllus, on pallid spots, black, flattish, minute to 1/5 mm. in diameter, irregular in outline.

Sporules ovate-oblong, straight or somewhat curved, sooty tinted or black, 3-septate, rounded at the apex while the proximal cell is subacute and hyaline, with a pedicel sometimes attached, 14–22 $\times$ 5–7 μ. Pedicels hyaline up to 25 μ long.

Heterosporium tuberculans Ellis & Everh.

On *Iva xanthiifolia*. Kulm, Oct., 1908.
(Fungi Dak. *255*.)

Kellermania Sisyrinchii Ellis & Everh.

On *Sisyrinchium angustifolium*. Kulm, June. 1916.
(Fungi Dak. *383*.)

Leptotherium gentianaecolum (DC.) Beauml.

On *Gentiana Andrewsii*. Anselm, Aug., 1916.
(Fungi Dak. *385*.)

Macrophoma Brenckleana Sacc. & Syd. n. sp.

On *Salix longifolia*. Kulm, Feb., 1913.

Macrophoma smilacina (Peck) Bert. & Vogl.

On *Smilax herbacea*. Mandan, Aug., 1915.

Macrosporium fasciculatum Cooke & Ellis.

On *Phaseolus nanus*. Kulm, Aug., 1908.
(Fungi Dak. *56*.)

Macrosporium heteronemum Desm.

On *Robinia hispida* (in cult.). Kulm, Sept., 1914.
(Fungi Dak. *368*.)

Macrosporium parasiticum Thüm.
On *Ramularia Armoraciae* Fuckel. Kulm, Aug., 1914.
(Fungi Dak. *258.*)
Macrosporium tomato Cooke.
On garden tomato. Kulm, Aug., 1908.
Melanoconium cerasium Peck.
On *Prunus melanocarpa.* Kulm, May, 1913.
(Fungi Dak. *387.*)
Monilia angustior Reade.
On *Prunus melanocarpa.* Kulm, June, 1913.
(Fungi Dak. *335.*)
Nematogonum aurantiacum Desm.
On bark of apple tree. Kulm, May, 1914.
Ovularia lotophaga Ellis & Everh.
On *Lotus americanus.* Kulm, Aug., 1912.
(Fungi Dak. *195.*)
Ovularia obliqua (Cooke) Oud.
On *Rumex crispa.* Kulm, Aug., 1915.
Phoma leptospora Sacc. n. sp.
On *Grindelia squarrosa.* Kulm, July, 1913.
Phoma Astragali Cooke & Hark.
On *Astragalus goniatus.* Kulm, July, 1908.
(Fungi Dak. *145.*)
Phyllosticta Betae Oudem.
On *Beta vulgaris.* Kulm, July, 1915.
(Fungi Dak. *362.*)
Phyllosticta crataegicola Sacc.
On *Crataegus mollis.* Kulm, Aug., 1914.
Phyllosticta cruenta Kickx.
On *Smilacina stellata.* Kulm, July, 1908.
(Fungi Dak. *287.*)
Phyllosticta destruens Desm.
On *Prunus melanocarpa.* Kulm, Sept., 1914.
Phyllosticta ivaecola Ellis & Everh.
Iva xanthiifolia. Kulm, July, 1914.
(Fungi Dak. *338.*)
Phyllosticta Labrusca Thüm.
On *Ampelopsis quinquefolia.* Kulm, Aug., 1916.
(Fungi Dak. *393.*)
Phyllosticta viridis Ellis & Kellerm.
On *Fraxinus pennsylvanica.* Newell, S. D., Aug., 1912.
Phyllosticta viticola Thüm.
On *Vitis vulpina.* Ft. Ransom, Aug., 1916.
(Fungi Dak. *409.*)
Phyllosticta sp.
On *Sium cicutaefolium.* Kulm, July, 1912.
Placospaeria Galii Sacc.
On *Galium boreale.* Kulm, Sept., 1914.
(Fungi Dak. *363.*)

Polythrincium Trifolii Kuntze.
On *Trifolium repens*. Kulm, Sept., 1909.
On *Trifolium Michelianum*. Fargo, Aug., 1916, Stevens.
(Fungi Dak. *57*.)
Ramularia Armoraciae Fuckel.
On *Roripa Armoracia*. Kulm, Aug., 1914.
(Fungi Dak. *263*.)
Ramularia arvensis Sacc.
On *Potentilla pentandra*. Kulm, June, 1913.
Ramularia Celastri Ellis.
On *Celastrus scandens*. Kulm, Aug., 1908.
Ramularia Heraclei (Oud.) Sacc.
On *Heracleum lanatum*. Kulm, July, 1908.
(Fungi Dak. *69*.)
Ramularia montana Speg.
On *Epilobium coloratum*. Kulm, Aug., 1915.
Ramularia rufo-maculans Peck.
On *Polygonum emersum*. Kulm, Sept., 1914.
Ramularia Taraxaci Karst.
On *Taraxacum officinale*. Fargo, Oct., 1914, Stevens.
(Fungi Dak. *295*.)
Ramularia Urticae Ces.
On *Urtica gracilis*. Kulm, Aug., 1912.
(Fungi Dak. *200*.)
Septoria Astragali Rab.
On *Lathyrus venosus*. Ft. Ransom, Aug., 1916.
Septoria Brencklei Sacc. n. sp.
On *Echinocystis lobata*. Kulm, July, 1913.
(Fungi Dak. *247*, *247a*.)
Septoria bromigena Sacc. n. sp.
On *Bromus inermis*. Kulm, June, 1914.
(Fungi Dak. *319*.)
Septoria conspicua Ellis & Mart.
On *Steironema lanceolatum*. Fargo, Sept., 1914, Stevens.
Septoria Convolvuli Desm.
On *Convolvulus sepium*. Kulm and Fargo, Oct., 1914, Stevens.
(Fungi Dak. *265*.)
Septoria cornicola Desm.
On *Cornus stolonifera*. Ft. Ransom, Aug., 1916.
Septoria Crataegi Kickx.
On *Crataegus mollis*. Kulm, Oct., 1914, and Fargo, Sept., 1916, Stevens.
Septoria Fraxini Desm.
On *Fraxinus lanceolata*. Fargo, Sept., 1914, Stevens.
Septoria gaurina Ellis & Kellerm.
On *Gaura coccinea*. Kulm, June, 1909.
(Fungi Dak. *167*.)
Septoria Helianthi Ellis & Kellerm.
On *Helianthus annuus*. Kulm, July, 1914.
(Fungi Dak. *266*.)

Septoria irregularis Peck.
On *Pisum sativum.* Kulm, July, 1914.
Septoria Liatridis Ellis & Davis.
On *Liatris scariosa.* Kulm, June, 1914.
(Fungi Dak. *267.*)
Septoria littorea Sacc.
On *Apocynum cannabinum.* Kulm, July, 1916.
Septoria malvicola Ellis & Mart.
On *Malva rotundifolia.* Fargo, Sept., 1915, Stevens.
(Fungi Dak. *395.*)
Septoria Oenotherae Westd.
On *Anogra pallida* and *Onagra stigosa.* Kulm, June, 1914.
(Fungi Dak. *268, 396.*)
Septoria peregrina Sacc. n. sp.
On *Conringia orientalis.* Kulm, July, 1915
(Fungi Dak. *397.*)
Septoria Pisi West.
On *Pisum sativum.* Kulm, July, 1914.
(Fungi Dak. *269.*)
Septoria Polygonorum Desm.
Polygonum lapathifolium. Kulm, June, 1914.
(Fungi Dak. *270.*)
Septoria Pruni Ellis.
On *Prunus americana.* Fargo, Aug., 1915, Stevens.
Septoria psammophila Sacc. n. sp.
On *Astragalus pectinatus.* Lostwood, Aug., 1915, Stevens.
Septoria rhoina Sacc.
On *Rhus glabra.* Enderlin, Aug., 1916.
Septoria Ribis Desm.
On *Ribes rubrum, R. floridum,* and *R. Uva-crispa.* Kulm, July, 1914.
(Fungi Dak. *271.*)
Septoria Rudbeckiae Ellis & Hals.
On *Ratibida columnaris.* Kulm, July, 1915.
Septoria Rumicis Trail.
On *Rumex salicifolia.* Kulm and Fargo, June, 1915, Stevens.
Septoria Scrophulariae Peck.
On *Scrophularia leporella.* Ft. Ransom, Aug., 1916, Stevens.
(Fungi Dak. *398.*)
Septoria sibirica Thüm.
On *Ribes rubrum.* Kulm, July, 1914.
(Fungi Dak. *320.*)
Septoria Symphoricarpi Ellis & Everh.
On *Symphoricarpos occidentalis.* Kulm, Aug., 1914.
(Fungi Dak. *272.*)
Septoria Toxicodendri Curt.
On *Rhus radicans.* (See *Cylindrosporium Toxicodendri.*)
Septoria Xanthiifolia Ellis & Kellerm.
On *Iva xanthiifolia.* Kulm, July, 1914.
Septoria Ziziae Ellis & Everh.
On *Zizia cordata.* Kulm, July, 1914.

Sphaeropsis Clintonii Peck.
On *Acer Negundo*. Kulm, Apr., 1913.
(Fungi Dak. *218*.)
Sphaeropsis Peckii Sacc.
On *Prunus americana*. Fargo, July, 1914.
Sphaeropsis Rosarum Ellis & Everh.
On *Rosa blanda*. Kulm, May, 1914.
Sphaeropsis rubicola Cooke & Ellis.
On *Rubus strigosus*. Kulm, Apr., 1915.
Stagonospora Chenopodii Peck.
On *Chenopodium rubrum*. Kulm, Sept., 1914.
Stagonospora graminea Sacc.
On *Phragmites communis*. Kulm, Nov., 1914.
Stagonospora simplicior Sacc. & Briard.
On *Andropogon furcatus*. Kulm, July, 1914.
Stagonospora Smilacis (Ellis & Mort.) Sacc.
On *Smilax pulverulenta*. Fargo, Oct., 1916, Stevens.
Steirochaete Malvarum A. Br. & Casp.
On *Malva parviflora*. Kulm, July, 1912.
(Fungi Dak. *348*.)
Stemphylium botryosum Wats. var. *urocladium* Sacc.
On *Malvastrum coccineum*. Kulm, June, 1914.
Trimmatostroma Brencklei Sacc. n. sp.
On *Rosa heliophylla*. Kulm, June, 1914.
Trimmatostroma Salicis Corda.
On *Salix*. Kulm, June, 1912.
Tuberculina persicina Ditm.
On *Aecidiaceae*. Kulm and Leeds, July, 1913, Lunell.
Vermicularia dematium (Pers.) Fr.
On *Heracleum lanatum*. Beaver Lake, July, 1908.
Vermicularia dematium (Pers.) Fr. f. *minor* Sacc.
On *Taraxacum officinale*. Kulm, July, 1913.
(Fungi Dak. *400*.)

FORT DOUGLAS, UTAH.